



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Shinya Adachi et al. Applicants:

Serial No .: 10/075,164

Filed: February 14, 2002

METHOD FOR TRANSMITTING LOCATION INFORMATION ON A Title:

DIGITAL MAP

Docket No.: 34408

### PETITION TO MAKE SPECIAL UNDER 37 C.F.R. § 1.102(d)

Commissioner of Patents Washington, D.C. 20231

RECEIVED

Sir:

Technology Center 2100 Applicant hereby petitions that the above-identified application be made special under 37 C.F.R. § 1.102(d) and MPEP § 708.02, VIII, Special Examining Procedure For Certain New Applications – Accelerated Examination. The application has not received any examination by an Examiner.

> I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington D.C. 20231 on the date indicated below.

> > Aaron A. Fishman

Name of Attorney for Applicant(s)

August 21, 2002

Date

Signature of Attorney

P:\Client-Work\NGB.w\NGB-34408.w\NGB-34408-PTRN-v02-AAF-klh.wpd

The following are submitted herewith:

- a) A check for \$130 to cover the petition fee (37 CFR §1.17(h));
- b) A statement that a preexamination search was performed, a listing and discussion of the field of search, and a detailed discussion of the most relevant uncovered references pointing out how the claimed invention is patentable over those references; and
- c) An Information Disclosure Statement, associated form PTO-1449, and references cited therein.

All the claims in the above-captioned patent application are drawn to a single invention.

If there are any additional fees resulting from this communication not covered by the enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit Account No. 16-0820, our Order No. 34408.

Respectfully submitted,

PEARNE & GORDON LLP

Bv:

Aaron A. Fishman, Reg. No. 44682

526 Superior Avenue, East Suite 1200 Cleveland, Ohio 44114-1484 (216) 579-1700

Date: August 21, 2002





## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Shinya Adachi

Serial No.:

10/075,164

Art Unit: 2

2121

Filed:

February 14, 2002

Title:

METHOD FOR TRANSMITTING LOCATION INFORMATION ON A

**DIGITAL MAP** 

Docket No.:

34408

# SUPPLEMENTAL PETITION TO MAKE SPECIABECEIVED UNDER 37 C.F.R. § 1.102(d)

NOV 0 8 2002

Commissioner for Patents

ATTN: TECHNICAL CENTER 2100

Washington, D.C. 20231

Technology Center 2100

Sir:

Applicant hereby petitions that the above-identified application be made special under 37 C.F.R. § 1.102(d) and MPEP § 708.02, VIII, Special Examining Procedure For Certain New Applications – Accelerated Examination.

The application has not received an examination by an Examiner.

# RECEIVED

NOV 1 4 2002

DIRECTOR OFFICE TECHNOLOGY CENTER 2100 I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Attn: Technical Center 2100, Washington D.C. 20231 on the date indicated below.

Aaron A. Fishman

Name of Attorney for Applicant(s)

November 1, 2002

Date

Signature of Attorney

The following are submitted herewith:

A copy of the originally filed Petition to Make Special Under 37 CFR § 1.102(d); a)

b) A copy of the originally filed statement that a preexamination search was

performed, a listing and discussion of the field of search, and a detailed discussion of the most

relevant uncovered references pointing out how the claimed invention is patentable over those

references;

Exhibits "A" and "B" which were erroneously omitted from the Petition when it d)

was filed; and

A copy of the originally filed Information Disclosure Statement and associated c)

form PTO-1449 (references are not included as they were submitted with originally filed Petition

to Make Special).

All the claims in the above-captioned patent application are drawn to a single invention.

If there are any additional fees resulting from this communication not covered by the

enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit

Account No. 16-0820, our Order No. 34408.

Respectfully submitted,

PEARNE & GORDON LLP

By:

Aaron A. Fishman, Reg. No. 44682

526 Superior Avenue, East **Suite 1200** Cleveland, Ohio 44114-1484 (216) 579-1700

Date: November 1, 2002







#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: S

Shinya Adachi et al.

Serial No.:

10/075,164

Filed:

February 14, 2002

Title:

METHOD FOR TRANSMITTING LOCATION INFORMATION ON A

DIGITAL MAP

Docket No.:

34408

### STATEMENT AND DISCUSSION REGARDING PREEXAMINATION SEARCH, AND DISCUSSION OF MOST RELEVANT UNCOVERED REFERENCES IN SUPPORT OF PETITION TO MAKE SPECIAL

Commissioner of Patents Washington, D.C. 20231

Sir:

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Technology Center 2100

Applicant hereby submits the following statement and discussion:

#### PREEXAMINATION SEARCH

A preexamination search was conducted, in compliance with MPEP 708.02, VIII.

Special Examining Procedure For Certain New Applications – Accelerated Examination.

An initial search covered the following International Patent Classifications:

G 08 G - Traffic control systems (search inclusive of all subclasses),

G O9 B - Educational or demonstration appliances; appliances for teaching, or communicating with, the blind, deaf or mute; models; planetaria; globes; maps; diagrams

(search inclusive of all subclasses), and

G 01 C - Measuring distances, levels, or bearings; surveying; navigation; gyroscopic instruments; photogrammetry (search inclusive of all subclasses).

This search area covered 12,004 publications.

Within this search area, the search was narrowed to publications containing various combinations of the following keywords in their abstracts: "road," "traffic," "map," "atlas," "transportation," "car," "vehicle," "position," "location," "reference," "route," "calculation," and "information." A search was also conducted within the above-mentioned search area being limited to publications in which "BOSCH" is listed as the patentee.

A list of the actual search sets is enclosed herewith as "Exhibit A". A total of 120 potentially relevant references were discovered in this search.

A further search was conducted covering the following International Patent Classifications:

G 08 G 001/0969 - Traffic control systems for road vehicles. Arrangements for giving variable traffic instructions (indicating arrangements for variable information by selection or combination of individual elements . . provided with indicators in which a mark progresses showing the time elapsed, e.g. of green phase . . . Systems involving transmission of navigation instructions to the vehicle . . . . having a display in the form of a map,

G 09 B 029/00 - Maps; Plans; Charts; Diagrams, e.g. route diagram,

G 09 B 029/10, - Map spot or co-ordinate position indicators; Map-reading aids, and

G 01 C 021/00 - Navigation; Navigational instruments not provided for in preceding groups.

This second search area covered 11,133 publications.

Within this second search area, the search was narrowed using various keywords and patentees. A detailed explanation of this search is enclosed herewith as "Exhibit B."

Prior to these searches, applicant was aware of additional references, which are cited in an Information Disclosure Statement (IDS).

#### DISCUSSION OF MOST RELEVANT REFERENCE(S)

The party conducting the search has determined that the following uncovered references appear to be the most relevant to the subject invention: WO 00/08616 (hereinafter "616") and US 6,324,468 (hereinafter "468"). Thus, these references will be discussed with regard to patentability of the present claims. Each of these references is enclosed and cited in the IDS.

The present invention, as set forth in claim 1, is directed to a location information transmission method for reporting on-road location information on a digital map. The present invention is further directed to the steps of:

- (1) an information provider reporting on-road location information including: (a) a string of coordinates representing a road shape having a length determined depending on difficulty of shape matching, (b) additional information including road attributes or node details, and (c) relative information indicating the on-road location; and
- (2) a party receiving the on-road location information, performing shape matching to identify the road section on a digital map, and using the relative data to identify the on-road location.

The '616 publication discloses transmitting a several pairs of co-ordinates representing a traffic lane. However, '616 does not disclose including additional information such as road attributes or node details in order to assist in shape matching by a receiving party, as in the present invention set forth in claim 1. Since each of the limitations of the claim are not disclosed by the prior art, claim 1 and its dependent claims are patentable over the '616 publication.

The '468 patent discloses a central traffic station transmitting a route to a vehicle, the route consisting of a series of turning points, and the vehicle displaying the route on a

terminal unit in the vehicle. However, '468 does not disclose including additional information in the transmission, as in claim 1. Since each of the limitations of the claim are not disclosed by the prior art, claim 1 and its dependent claims are patentable over the '468 publication.

If there are any additional fees resulting from this communication not covered by the enclosed check, or if the check was omitted, please charge all uncovered fees to our Deposit Account No. 16-0820, our Order No. 34408.

Respectfully submitted,

PEARNE & GORDON LLP .

Aaron A. Fishman, Reg. No. 44682

526 Superior Avenue, East Suite 1200 Cleveland, Ohio 44114-1484 (216) 579-1700

Date: August 21, 2002

<List of Retrieval Style>

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Set No.	Items	Term	Descriptions
S01	1, 729	IPC	G08G?
S02	4, 768	IPC	G09B?
S03	5, 575	IPC	G01C?
S04	12, 004	logical expression	S01+S02+S03
S05	5, 214	abstract	road
S06	4, 825	abstract	traffic
S07	4, 617	abstract	map
S08	38	abstract	atlas
S09	4, 525	abstract	transportation
S10	7, 931	abstract	car
S11	79, 316	abstract	vehicle
S12	99, 854	logical expression	S05+S06+S07+S08 +S09+S10+S11
S13	4, 617	abstract	map
S14	38	abstract	atlas
S15	242, 671	abstract	position
S16	47, 604	abstract	location
S17	49, 609	abstract	reference
S18	3, 850	abstract	route
S19	5, 432	abstract	calculation
S20	80, 369	abstract	information
S21	395, 367	logical expression	S13+S14+S15+S16 +S17+S18+S19+S20
S22	9	logical expression	(\$01+\$02+\$03) * ((\$05+\$18) * (\$07+\$08) * (\$10+\$11)) * \$15 * \$16
S23	21	logical expression	(S01+S02+S03) * ((S05+S18) * (S10+S11)) *S15 * S16
S24	32	logical expression	(S01+S02+S03) *
(List ①)			(S05+S18) *S15*S16
S25	7, 721	patentee	BOSCH
S26	58	logical expression	(S01+S02+S03) *S25
(List ②)			(S01+S02+S03) *S06*
S27	30	logical expression	S20 * S16
(List ③)	ļ		320 7 310

# Search Report

Subject: Patent Search For Technologies of Navigation and Location Reference

#### [Subject]

Patent Search For Technologies of Navigation and Location Reference

#### [Term]

1993.01.01 ~ Derwent week 200242

#### [Data Base]

Dialog Derwent World Patents Index (DWPI)

#### [Field]

Whole recorded fields of the Database

#### [Contents]

We extract the whole technology regarding AGORA Project, especially, macro-matching or map (pattern) matching of map data, which are technologies for making a plurality of map data relate to and connect with each other. Elementally technologies are extracting similar figures, checking error matching, checking error positioning, map matching, or such.

- We searched within a field connected to "road", "traffic", and "map" included in the above mentioned technical field.
- Other keywords were applied to the search without limiting them to the above three keywords.

#### [Objective Manufactures for Search]

ERTICO, NavTech, TeleAtlas, move, BOSCH, Blaupunkt, Siemens VDO (DDG, Traffic master, Mannesmann)

- We started form "patent classification" so as to search widely regarding the important manufactures written in bold strokes.
- X The manufactures mentioned in the parenthesis were also searched with the keywords carefully.
- Other manufactures were searched with the keywords.

#### [Ways for Search]

We searched the technical fields along with the following retrieval style, output patent numbers of the objective sets, and investigated each reference. We also extracted references disclosing similar or relative arts to the technologies and evaluate their relevance.

#### [Retrieval Style]

Set	ltems	Description
<b>S1</b>	4940	IC=' G08G-001/0969'
S2	3586	IC=' G09B-029/00'
S3	3804	IC=' G09B-029/10'
<b>S4</b>	8762	IC=' G01C-021/00'
<b>S</b> 5	11133	\$1+\$2+\$3+\$4
<b>S6</b>	8679	S5*(ROAD OR TRAFFIC OR MAP OR ATLAS OR TRANSPORTATION OR CAR OR VEHICLE)
S7	507	(MAP OR ATLAS OR POSITION OR LOCATION) (W) MATCH?
S8	5097	(MAP OR ATLAS OR POSITION OR LOCATION) (W) ADJUST?
<b>S9</b>	2960	(MAP OR ATLAS OR POSITION OR LOCATION) (W) CORRECT?
S10	164 ·	ROUTE (W) CALCULATION OR ROUTING (W) CALUCURATION OR PATH (W) CALCULATION
S11	260	S6* (S7+S8+S9+S10)
S12	3	FAULT (W) MATCH? OR FAULT (W) ADJUST?
<b>S13</b>	129	ERROR (W) MATCH? OR ERROR (W) ADJUST?
<b>S14</b>	10597	ERROR (W) CORRECT?
S15	17	S6* (S12+S13+S14)

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17328
                 RELATIVE (W) POSITION?
S16
                 (SIMILAR+ANALOGOUS+ANALOGICUS+HOMOTHETIC) (W) FIGURE
S17
           39
                 S6*(S16+S17)
S18
           81
           37
                 LOCATION (W) REFERENC?
S19
                 S6* (POINT+LINE?+ROAD?) * (CHARACTER?+SHAPE?+GEOMETRY+TOPOLOGY
S20
         1119
                  +TYPE+FEATURE+DIRECTION)
S21
            0
                 S6*(ILOC OR GOODLANE OR PIVOT (W) POINT)
S22
          754
                 (POSITION? OR LOCATION?) *S20
S23
         1074
                 $11+$15+$18+$19+$22
                 PC=JP*NC=001
S24
      4104686
                 S23 NOT S24
S25
          392
                 PC=(EP+W0) *S25
S26
          218
S27
                 PA=ERTICO
            0
                 PA=' NAVTEC' +PA=' NAVTEC INC' +PA=' NAVTEC INC (NAVT-N)' +PA=' NAVTECH'
S28
            4
                  +PA=' NAVTECH CO LTD' +PA=' NAVTECH CO LTD (NAVT-N)'
                 PA=' TELEATLAS' +PA=' TELEATLAS INT BV' +PA=' TELEATLAS INT BV (TELE-N)'
S29
S30
                 PA=MOVE -
            70
S31
        32265
                 PA=BOSCH
                 PA=BLAUPUNKT
S32
          875
S33
        72701
                 PA=SIEMENS
                 $27+$28+$29+$30+$31+$32+$33
S34
       102433
S35
                 PA=DDG
           14
S36
                 PA=TRAFFIC MASTER
            0
                 PA=MANNESMANN
S37
          9151
S38
          9164
                 $35+$36+$37
S39
          144
                 S6*S34
S40
            7
                 $6*$38*($7+$8+$9+$10+$12+$13+$14+$16+$17+$22)
                 S39 NOT S24
S41
           144
                 S40 NOT S24
S42
            7
S43
                 S25+S41+S42
           500
                 PC=(EP+W0) *S43
<u>$44</u>
           299
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\* We output and investigated the references in the underlined set.

#### [Result of Search]

in

As a result of the search, we extracted 134 patent families in total. If a patent publication is written in German or French, we referred to a corresponding publication written in Japanese or English, which is belonging to the family member of the parent publication in order to investigate its details.

In attached FD, expressed as above.

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*++:1	Method and structure for operating a navidWO 20021758 Al		Displaying route, especially for vehicle NWO 200214788 Al		strieval method for	Television programme broadcast system inc(WO 200150763 A1				Coding, decoding and/or transmission of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Information and control system for vehicl DE 10034499 A1 N		Digital road map for automobile navigationEP 1167923 A2 NO		Selecting map information for navigation dDE 10029198 Al N		Method and navigational instrument for detDE 10021373 A1 N		Navigation system for motor vehicles, setsEP 1150101 Al NO			Navigation device for satellite-based veh(EP 1102036 A1 NO		Navigational information display method fdUS 6308132 B1 NO		Navigation system for vehicles, has neura[OE 10004163 Al N		Data output method for automobile driver informal WO 200175838 A1		Map information changing device for motor EP 1126245 A2 NO		Intersection display method for map displaFP 1122626 AT NO			Operating navigation system, involves tranDE 19963766 A1 N	X			Operating navigation system, involves tranDE 19963765 A1 N		Encoding and decoding objects in road netMDE 10009149 Al N	
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Related Art for Navigation and Location Reference

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9.1	Road network related data providing methodEP 1111336 A1 NO	P 1111336 A1 NOV NAVIGATION	1BECHTOL SHE	EP 1111336	A1	20010627		EP 2000310804	<b>A</b>
		_		JP 2001227978	A	20010824	∇		٧
- 66	Data storing method in geographic databasdEP 1098168 A2 NO	P 1098168 AZ NOV NAVIGATION	BOYLAN A ME	EP 1098168	A2	20010509		EP 2000302881	٧
		_		JP 2001201358	A	2001072	0	JP 2000326025	٧
	Encoding and decoding road network objects, invdDE 19942522 A1 N	E 19942522 A1 NOBOSCH GMBH	ROBERT (F	19942522	A1	20010308	•	DE 1042522	۷
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24	Image processing apparatus for navigating EP 1074960 A1 NO	V PIONEER	CORFIXASHIWAZAK	EP 1074960 JP 2001034899	- A	20010207	△	EP 2000115939 JP 99211273	<b>4 4</b>
	Navigational information transmission prodDE 19930796 A1 N	D BOSCH GMBH	FDRAEGER G&HD		A1	20010111		DE 1030796	4
			W	AU 200066829	٧	20010122		AU 200066829	4
52			<u>&gt;I</u>	WO 200102806	A1	20010111	Δ+	WO 2000DE2140	⋖
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	Adapter card for navigation device has infDE 19934837 A1 N	O BOSCH GMBH	FRYCHLAK S& D	E 19934837	A1	20010125		DE 1034837	¥
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	Vehicle navigation system in which the scaDE 19926367 Al N	O BOSCH GMBH	PDUCKECK R& D	DE 19926367	A1	20001214		DE 1026367	∢
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	Route guidance device for motor vehicle	WO 200050845 A1 N XANAVI INFO	INFORSATO HR	WO 200050845	A1	20000831		WO 2000JP1111	<b>A</b>
86			7	JP 2000241182	⋖	20000908	0	JP 9947945	<
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	Determining the position of a vehicle invdDE 19915212 A1 N	O BOSCH GMBH	HONKOMP D&KD		W.	20001005			V
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